

SCORE Search Results Details for Application 10552515 and Search Result 20090316_112516_us-10-552-515-1.ra1.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
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This page gives you Search Results detail for the Application 10552515 and Search Result 20090316_112516_us-10-552-515-1.ra1.

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GenCore version 6.3

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OM protein - protein search, using sw model

Run on: March 17, 2009, 05:01:40 ; Search time 160 Seconds
(without alignments)
1258.128 Million cell updates/sec

Title: US-10-552-515-1
Perfect score: 4950
Sequence: 1 MRMAATAWAGLQGPPLPTLC.....SELSSHWPFTVPKASQLQQ 933

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1316349 seqs, 215321474 residues

Total number of hits satisfying chosen parameters: 1316349

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /ABSS/Data/CRF/ptodata/1/iaa/5_COMB.pep:*
2: /ABSS/Data/CRF/ptodata/1/iaa/6_COMB.pep:*
3: /ABSS/Data/CRF/ptodata/1/iaa/7_COMB.pep:*
4: /ABSS/Data/CRF/ptodata/1/iaa/H_COMB.pep:*
5: /ABSS/Data/CRF/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /ABSS/Data/CRF/ptodata/1/iaa/RE_COMB.pep:*
7: /ABSS/Data/CRF/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query		DB	ID	Description
		Match	Length			
1	1531.5	30.9	920	2	US-10-104-047-2574	Sequence 2574, Ap
2	1497	30.2	956	3	US-10-912-745B-284	Sequence 284, App
3	1154	23.3	596	2	US-10-104-047-2541	Sequence 2541, Ap
4	912.5	18.4	475	2	US-10-104-047-3116	Sequence 3116, Ap
5	905	18.3	642	3	US-10-108-260A-4483	Sequence 4483, Ap
6	796	16.1	425	2	US-09-270-767-45552	Sequence 45552, A
7	684.5	13.8	483	3	US-10-108-260A-3990	Sequence 3990, Ap
8	594.5	12.0	660	3	US-10-108-260A-3644	Sequence 3644, Ap
9	455.5	9.2	257	3	US-10-100-683-7209	Sequence 7209, Ap
10	455.5	9.2	257	3	US-11-001-793-7209	Sequence 7209, Ap
11	411.5	8.3	393	3	US-09-876-997-457	Sequence 457, App
12	411.5	8.3	393	3	US-10-643-836-457	Sequence 457, App
13	396.5	8.0	215	2	US-09-270-767-61064	Sequence 61064, A
14	353	7.1	366	2	US-09-270-767-32253	Sequence 32253, A
15	353	7.1	366	2	US-09-270-767-47470	Sequence 47470, A
16	290	5.9	189	2	US-09-270-767-31816	Sequence 31816, A
17	290	5.9	189	2	US-09-270-767-47033	Sequence 47033, A
18	255.5	5.2	199	2	US-09-270-767-31722	Sequence 31722, A
19	255.5	5.2	199	2	US-09-270-767-46939	Sequence 46939, A
20	186.5	3.8	166	2	US-09-621-976-4064	Sequence 4064, Ap
21	186.5	3.8	166	3	US-10-664-025A-4064	Sequence 4064, Ap
22	117	2.4	548	1	US-08-676-279-50	Sequence 50, Appl
23	117	2.4	548	2	US-08-903-139B-8	Sequence 8, Appli
24	117	2.4	548	2	US-08-637-823B-25	Sequence 25, Appl
25	117	2.4	548	2	US-09-614-957D-25	Sequence 25, Appl
26	115.5	2.3	2013	1	US-08-324-977-12	Sequence 12, Appl
27	115.5	2.3	2013	1	US-08-384-616-12	Sequence 12, Appl
28	115.5	2.3	2013	1	US-08-904-686A-12	Sequence 12, Appl
29	115.5	2.3	2013	2	US-09-315-850-12	Sequence 12, Appl
30	115.5	2.3	3010	1	US-08-324-977-2	Sequence 2, Appli
31	115.5	2.3	3010	1	US-08-324-977-14	Sequence 14, Appl
32	115.5	2.3	3010	1	US-08-384-616-2	Sequence 2, Appli
33	115.5	2.3	3010	1	US-08-384-616-14	Sequence 14, Appl
34	115.5	2.3	3010	1	US-08-904-686A-2	Sequence 2, Appli
35	115.5	2.3	3010	1	US-08-904-686A-14	Sequence 14, Appl
36	115.5	2.3	3010	2	US-09-315-850-2	Sequence 2, Appli
37	115.5	2.3	3010	2	US-09-315-850-14	Sequence 14, Appl
38	113.5	2.3	631	3	US-10-369-493-12179	Sequence 12179, A
39	112.5	2.3	1107	3	US-11-216-782-11586	Sequence 11586, A
40	110.5	2.2	680	2	US-09-725-735A-19	Sequence 19, Appl
41	110.5	2.2	680	3	US-10-457-452-19	Sequence 19, Appl
42	108.5	2.2	523	2	US-09-949-016-11540	Sequence 11540, A
43	108.5	2.2	578	2	US-09-052-753B-7	Sequence 7, Appli
44	106	2.1	539	2	US-09-248-796A-16542	Sequence 16542, A
45	105	2.1	1089	2	US-10-012-231A-102	Sequence 102, App

ALIGNMENTS

RESULT 1

US-10-104-047-2574
 ; Sequence 2574, Application US/10104047
 ; Patent No. 6943241
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: No. 6943241el full length cDNA
 ; FILE REFERENCE: H1-A0105
 ; CURRENT APPLICATION NUMBER: US/10/104,047
 ; CURRENT FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER:
 ; PRIOR FILING DATE:
 ; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2574
 ; LENGTH: 920
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-104-047-2574

Query Match 30.9%; Score 1531.5; DB 2; Length 920;
 Best Local Similarity 37.9%; Pred. No. 4.3e-157;
 Matches 360; Conservative 168; Mismatches 316; Indels 105; Gaps 29;

Qy	44	TSSGSHCARSMRLRRRAQEEDSTVLID---VSPPEAE-----KRGSYGST---AHASEP	91
		: ::: : : : :	
Db	4	SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDSLHHPGNLTSTSDDASRLEA	61
Qy	92	GGQQAACRAGS-----PAKPRIADFVLVWEEDLKLDRQQDASARDRTDMHRTWRETFD	146
		: : :: : : : : : : :	
Db	62	GGETVPERNKSNGLYFRDGKCRD-DYILVYRK-----SNPQTEK----REVFER	105
Qy	147	NLRAAGLCVDQDQVQDGNTTVHYALLSASWAVLCYYAEDLRKLPLQE---LPNQASNW	202
		:: ::: : : : : : : : :	
Db	106	NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFM	164
Qy	203	S-----AGLLAWLGIPNVLL--EVVPDVPP-EYYSRFRVFNKLPRFLGSDNQDTFFTST	253
		: : : : : : : : : :	
Db	165	SRIDKQISRLRRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNA	223
Qy	254	KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQ	313
		: : : : : : :	
Db	224	TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAPFLHEGSYRSKNSIRTHGAENHR	282
Qy	314	QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCF	373
		: : :	
Db	283	HLLYECWASGWVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGV	342
Qy	374	LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL	432
		: : : : : : : : : : :	

Db 343 TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV 401

Qy 433 WAVLLELYWKRSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER 491
| | : ||: |||: | :|| | | | |:|: | | ||| | : |||:|: |||

Db 402 WATVFLEFWKRRRAVIAYDWDLDIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQFT 461

Qy 492 SRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLA-AWA-----SRIA 545
: |: : | |: |: : |:|: : :| | | |:|

Db 462 DKCSRLIVSASGIFFMICVVIAAVFGIVYIRVTV-----STFAAFKWLIRNNSQVA 514

Qy 546 SLTGSVV--NLVFILILSKIYVSLAHVLRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSP 603
: ||: | | |:|: :| :| :|| | | |:|:|:|:|:|:|:|:| |

Db 515 T-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNSST 573

Qy 604 VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGQVINNMQEVLI 662
| ||| | | |:| | | | | | | |:| : :| | | | | | :

Db 574 FYIAFFLGRFTGHPGAYLRLINRWLEECHPSGCLIDLQMGIIMVLKQTWNNFMELGY 633

Qy 663 PKLKGWQKFLRLSRKKRAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTI 720
| : : | : | : : | | | | | | | | | | | | | | | |

Db 634 PLIQNWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI 690

Qy 721 FVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN 780
| | | | | | | | | :| | | | | | :| | | | | | | | | : | :|:|

Db 691 FVAAPPLAPLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWGILEGIGILSVITN 750

Qy 781 AFLLAFFSSDFLPRAYRW-----TRAHDLRGLFNFTLA-----RAP 816
| | :| :| | | | | | : :| :| :| :| :| :| :| :

Db 751 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMGVYVNASLSVFRISDFENRSEPSDG 810

Qy 817 SSFAAAHNRTCRYRAFRDDDGH----YSQTYWNLLAIRLAFVIVFEHVFSVGRLLDLL 871
| | : : | | | | | | : :| :| | | | | | | | : | : |

Db 811 SEFSGTPLYCRYRDYRDPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISLY 870

Qy 872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSH 920
:| |:| : : :| :| | | : : | | : | : | : |

Db 871 IPDLPKDLDRMRREKYLIQEMMYEALERLQKERKERKNGKAHNEW 919

RESULT 2

US-10-912-745B-284

; Sequence 284, Application US/10912745B

; Patent No. 7473531

; GENERAL INFORMATION

; APPLICANT: DOMON, Bruno et al.

; TITLE OF INVENTION: Pancreatic Cancer Targets and Uses

; TITLE OF INVENTION:Thereof

; FILE REFERENCE: CL001538

; CURRENT APPLICATION NUMBER: US/10/912,745B

; CURRENT FILING DATE: 2004-08-06

; NUMBER OF SEQ ID NOS: 875

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 284

; LENGTH: 956
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-912-745B-284

Query Match 30.2%; Score 1497; DB 3; Length 956;
 Best Local Similarity 37.6%; Pred. No. 2.7e-153;
 Matches 362; Conservative 161; Mismatches 307; Indels 132; Gaps 27;

Qy	26	GLYCRDQAHAEWRWMT--SETSSGSHCARSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYG	83
		: : : : :	
Db	52	GLYFRDGRKRVVDYILVYHHKRPSTG-----NRTLVRVQHSSTP-----SGA	92
Qy	84	STAHASEPGGQQAACRAGSPAKPRIADFLVLWVEEDLKLDRQQDSAADRTDMHRTWRET	143
		: : : : : : :	
Db	93	RSVKQDHLPLPGKGASLDAGSGEPP-----MDYHEDD-----KRFREE	130
Qy	144	FLDNLRAAGLCVDQDQDVGNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQAS	200
		: : : : : : : : : : : : : :	
Db	131	YEGNLLAEAGLELE----RDEDTKIHGVGFKIHAPWNVLCREAEFLKLMKPTKKMYH--I	184
Qy	201	NWSAGLLAWLGIPNVLLVVPDVPPEYYSCR-----FRVNKLPRFLGSDNQDTFF	250
		: : : : : : : : : :	
Db	185	NETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYPPFSREKQHLFDLSD-KDSFF	241
Qy	251	TSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRL	310
		: : : : : : : : : :	
Db	242	DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF	295
Qy	311	NQRQVLQFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLV	370
		: : : : : : : : : : : : : :	
Db	296	NDRKLLYEAWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYQMLIPASIVGIIVFLY	355
Qy	371	GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLF	429
		: : : : : : : : : : : : :	
Db	356	GCATMDENIPSMEMCDQRHNITMCPLCDKTCYWKMSACATARASHLFDNPATVFFSVF	415
Qy	430	MALWAVLLELYWKRSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGED	484
		: : : : : : : : : : : : :	
Db	416	MALWAATFMEHWKRQKMLNRYRWDLTGFEEEDHPRAEYEARVLEKSLKESRNKET--D	473
Qy	485	EPYFPPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAVVSRSGNTLLAAWASRI	544
		: : : : : : : : : : : : : :	
Db	474	KVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSNIRVT	533
Qy	545	ASLTGSVNVNLFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPV	604
		: : : : : : : : : : : : : :	
Db	534	VTATAVINLVIIILLDEVYGCIARWLTKEIVPKTEKSFEERLIFKAFLFKFVNSYTPIF	593
Qy	605	YIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI--NNMQEVL	662
		: : : : : : : : :	
Db	594	YVAFPKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGI	653

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Qy      663 PKLKGWWQKFRRLRSKKRKGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTIFV 722
      ||:| : :|: : : :| || | | || ||:|::| |||:|
Db      654 PKMKKLIRYLKLKQKQSPPDHEECVKKRQRYEVDYNLEPFAGLTPEYMEMI IQFGFVTLFV 713

Qy      723 AACPLAPLFA LLNNVWEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAF 782
      |: ||| ||| ||| :||| ||| | ||| ||: ||| :| |: ||| |||
Db      714 ASFPLAPLFA LLNNIIEIRLDAKKFVTELRPPVAVRAKDIGIWNILRGIGKLAVIINAF 773

Qy      783 LLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF-----AAAHN----- 824
      :::|:| ||| | :|: : ||: | | || | | |
Db      774 VISFTSDFIPRLVLYLYMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPNDPLDLGYEV 829

Qy      825 RTCRYRAFRD---DDGHY--SQTYWNL LAIRLAFVIVFEHVVSFVGRLLDLLVPDIPESV 879
      | ||: |: : : | |: :| :| ||| ||| |||:| :| :| :| |||: :
Db      830 QICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVFMFMSDFVDWVIPDIPKDI 889

Qy      880 EIKVKREYYLA-----KQALAENEVLFGTNGTKDEQP-----KGSELS 917
      :::| | | || | | || | | || | | ||
Db      890 SQQIHKEKVLMLVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHHTKACPDLSLGSPAP 947

Qy      918 SH 919
      ||
Db      948 SH 949

```

RESULT 3

US-10-104-047-2541

; Sequence 2541, Application US/10104047

; Patent No. 6943241

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. 6943241el full length cDNA

; FILE REFERENCE: H1-A0105

; CURRENT APPLICATION NUMBER: US/10/104,047

; CURRENT FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER:

; PRIOR FILING DATE:

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2541

; LENGTH: 596

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-104-047-2541

Query Match 23.3%; Score 1154; DB 2; Length 596;

Best Local Similarity 41.3%; Pred. No. 4.1e-116;

Matches 250; Conservative 108; Mismatches 194; Indels 54; Gaps 14;

```

Qy      357 LLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAG 415
      | ||| :| ||| | : :|:| :| |||:| ||| ||:| |:
Db      2 LFPAAFIGLGFVFLYGVTTL DHSQVSKEVCQATDII-MCPVC DKYCPFMRSLSDSCVYAKVT 60

```

Qy 416 RLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APM 474
 |||:| |||::|||:| : ||:| | : || | | :|: | | ||| | :
 Db 61 HLFNDGATVFFAVFMAVWATVLEFWKRRRAVIAYDWDLDIDWEEEEEEIRPQFEAKYSKK 120

Qy 475 TAPNPITGEDEPYFPERSRARMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIIVVSRSGN 534
 |||:| ||| : |:: : | |:: |:: : |::| : :
 Db 121 ERMNPISGKPEPYQAFDTKCSRLIVSASGIFFMICVVIAAVFGIVIRVVTV-----S 173

Qy 535 TLLA-AWA-----SRIASLTGSGV--NLVFILILSKIYVSLAHVLTREWEMHRTQTKFEDA 586
 | | || |::| |:: | | |::| : | : || | |::|:|:
 Db 174 TFAAFKWLIRNNSQVAT-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENS 232

Qy 587 FTLKVFIQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGLIELAQELL 645
 ||||:|:|||| | | || || | | | | | | | | | | | | | | : :
 Db 233 FTLKMFILQFVNLSSTFYIAFFLGRFTGHPGAYLRLINRWLEECHPSGCLIDLQMCMG 292

Qy 646 VIMVGKQVINNMQEVLIPLKLGWWQKFRLSKKRKAGASAGASQGPWEDDYELVPC--G 703
 :|| | | | | : |:: | : |:: | | | | | | | | | | |
 Db 293 IIMVLKQTWNNFMELGYPLIQNWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYG 349

Qy 704 LFDEYLEMVLQFGFVTIFVAACPLAPLALLNNWVEIRLDARKFVCEYRRPVAERAQDIG 763
 |||||:|:|||| | |||| | |||| | |||| : |||| | | : ||:| | | : ||
 Db 350 LFDEYLEMILQFGFTTIFVAAPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIG 409

Qy 764 IWFHILAGLTHLAVISNAFLAFSSDFLPRAYRW-----TRAHDLRGFLNFTLA 813
 ||: | | : |::|:|:|:| : ||:| | | : : |::| : |:
 Db 410 IWYGILEGIGILSVITNAFVIAITSDFIPLRYVYKYGPCAGQGEAGQKCMVGVNNASLS 469

Qy 814 -----RAPSSFAAAHNRTRCRYRAFRDDDGH-----YSQTYWNLLAIRLAFV 854
 | : : ||| : || | : : || | |||:
 Db 470 VFRISDFENRSEPDGSEFSGTPLKYCRYRDRDPHSLVPYGYTLQFHHVLAARLAFI 529

Qy 855 IVFEHVVSFVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGS 914
 ||||:| : | : |::|: : :::| | : : | : | : : |
 Db 530 IVFEHLVFCIKHLISYLIPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNKG 589

Qy 915 ELSSHW 920
 : |
 Db 590 AHHNEW 595

RESULT 4

US-10-104-047-3116

; Sequence 3116, Application US/10104047

; Patent No. 6943241

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. 6943241el full length cDNA

; FILE REFERENCE: H1-A0105

; CURRENT APPLICATION NUMBER: US/10/104,047

; CURRENT FILING DATE: 2002-03-25

; PRIOR APPLICATION NUMBER:

; PRIOR FILING DATE:

; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3116
 ; LENGTH: 475
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-104-047-3116

Query Match 18.4%; Score 912.5; DB 2; Length 475;
 Best Local Similarity 38.0%; Pred. No. 7.3e-90;
 Matches 202; Conservative 89; Mismatches 143; Indels 97; Gaps 12;

```

Qy      430 MALWAVLLLEYWKRSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFP 489
      ||:|| : ||:||: | :|| || |:||: |
Db      1 MAVWATVFLEFWKRRRAVIAYDWDLIDWEEEE----- 32

Qy      490 ERSRARRMLAGSVVIVVMVAVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SR 543
      : ||: : ||:|| : :|| : || : || : ||:
Db      33 -----ICVVIAAVFGIVIRVTV-----STFAAFKWALIRNNSQ 67

Qy      544 IASLTGSVV--NLVFIILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYS 601
      :||: ||: | | :||: :| :| :|| | ||:::||:||||:|:|||| |
Db      68 VAT-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLS 126

Qy      602 SPVYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV 660
      | |||| | || :|| | | | || | ||||:| : :||| || || |:
Db      127 STFYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLQCMQGIIMVLKQTWNFMEL 186

Qy      661 LIPKLKGWQKFRRLRSKKRKAGASAGASQGPWEDDYELVPE--GLFDEYLEMVLQFGFV 718
      | : : || : | : : | | || || | | |||||:||||
Db      187 GYPLIQNWWR--RKRVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFT 243

Qy      719 TIFVAACPLAPLALLNNWVEIRLDARKEVCEYRRPVAERAQDIGIWFHILAGLTHLAVI 778
      ||||| |||| |||| :|||| ||| :|||:| ||:||||: || |: |:|
Db      244 TIFVAAFPLAPLALLNNIEIRLDAYKFVTQWRRPLASRAKDIGIYWGILEGIGILSVI 303

Qy      779 SNAFLLAFFSSDFLPRAYRW-----TRAHDLRGFLNFTLA-----R 814
      :|||:| :|||:| | : :||:| :||:| :|
Db      304 TNAFVIAITSDFIPLRVYAYKYGPCAQGEAGQKCMVGYNASLSVFRISDFENRSEPES 363

Qy      815 APSFFAAAHNRTCRYRAFRRDDGH-----YSQTYWNLLAIRLAFVIVFEHVVSFVGRLLD 869
      | | : : ||| :|| | : :|| ||||:||||:| : | :
Db      364 DGSEFSGTLPKYCRYRDYRDPHSLVPYGYTLQFHWHLAARLAFIIVFEHLVFCIKHLIS 423

Qy      870 LLVPDIPESVEIKVKREYYLAKQALAEVLFGTNGTKDEQPKGSELSSHW 920
      ||:||:| : :|| || : : | | : | : | : |
Db      424 YLIPDLPKDLRDRMRREKYLIQEMMYEALERLQKERKERKKNGKAHNEW 474

```

RESULT 5

US-10-108-260A-4483

; Sequence 4483, Application US/10108260A

; Patent No. 7193069


```

; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 7193069e1 full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4483
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-4483
    
```

Query Match 18.3%; Score 905; DB 3; Length 642;
 Best Local Similarity 35.4%; Pred. No. 8.2e-89;
 Matches 222; Conservative 106; Mismatches 219; Indels 80; Gaps 17;

Qy	26	GLYCRDQAHAERWAMT--SETSSGSHCARSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYG	83
		: : : : :	
Db	24	GLYFRDGRRKVDYIILVYHKKRPSG-----NRTLVRVQHS DTP-----SGA	64
Qy	84	STAHASEPGGQQAACRAGSPAKPRIADFVLVWEEDLKLDRQQDS AARDRTDMHRTWRET	143
		: : : : : : :	
Db	65	RSVKQDHLPLPGKGASLDAGSGEPP-----MDYHEDD-----KRFRREE	102
Qy	144	FLDNLRAAGLCVDQQDVQDGNNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQAS	200
		: : : : : : : : : : : : : :	
Db	103	YEGNLEAGLELE----RDEDTKIHGVGVFKIHAPWNVLCREAEFLKLMPTKKMYH--I	156
Qy	201	NWSAGLLAWLGIPNVLLVVPDPVPEYYSCR-----FRVKNLPRFLGSDNQDTFF	250
		: : : : : : : : :	
Db	157	NETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYFPSREKQHLFDLSD-KDSFF	213
Qy	251	TSTKRQHILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRL	310
		: : : : : : : :	
Db	214	DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF	267
Qy	311	NQRQVLVQHWARWGKWNKYQPLDHVRRYFGEKVAFYFAWLGFYTGWLLPAAVVGTVLVFLV	370
		: : : : : : : : : :	
Db	268	NDRKLLYEWEARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIIVFLY	327
Qy	371	GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVVFFSLF	429
		: : : : : : : : : :	
Db	328	GCATMDENIPSMEMCDQRHNITMCPLCDKTCYWKMSACATARASHLFDNPATVFFSVF	387
Qy	430	MALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGED	484
		: : : : : : : :	
Db	388	MALWAATFMEHWKRKQMRNLNYRWDLTGFEEDDHPRAEYEARVLEKSLKESRNKET--D	445
Qy	485	EPYFPERSRARRMLAGSVVIVVMVAVVMCLVSIILYRAIMAVVSRSGNTLLAAWASRI	544
		: : : : : : : : : : : : :	
Db	446	KVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIRISMAAALAMNSSPSVRSNIRVT	505

http://es.ScoreAccessWeb/GetItem.action?AppId=105525...16_112516_us-10-552-515-1.ra1&ItemType=4&startByte=0 (10 of 20)3/19/2009 6:30:59 PM

http://es.ScoreAccessWeb/GetItem.action?AppId=105525...16_112516_us-10-552-515-1.ra1&ItemType=4&startByte=0 (11 of 20)3/19/2009 6:30:59 PM

```

      |::|| | :| : ||||:| ::||:|:|:| |:: : |:::
Db      293 AKDIGTWLQVLETIGVLAVIANGMVIAFTSEFIPRVVYKYRYSPLCKEGNSTVDCLKGYV 352

Qy      809 NFTLA-----RAPSSFAAAHNRT-CRYRAFRD-DDGHYSQTYWNLLAIRLAFVIVFEH 859
      |::: :| : | | ||| :|: | ::|: | | ||||| |||:|
Db      353 NHSLSVFTKDFQDPDGIEGSENVTLCRYRDYRNPDPYNFSEQFWFLLAIRLAFVILFEH 412

Qy      860 VVFSVGRLLDLLVPDIPESVEIKV-KREYYLAKQALAENEVLFGTNGTKDEQPKGSELSS 918
      | : : ||||:|: || : :| : : | | | : :
Db      413 VALCIKLIAAWFVPDIPQSVKNKVLEVKYQRLREKMWHGRQRLGGVGAGSRPP----MPA 468

Qy      919 HWTPTFTV 925
      | || ::
Db      469 HPTPASI 475

```

RESULT 8

US-10-108-260A-3644

; Sequence 3644, Application US/10108260A

; Patent No. 7193069

; GENERAL INFORMATION:

; APPLICANT: HELIX RESEARCH INSTITUTE

; TITLE OF INVENTION: No. 7193069el full length cDNA

; FILE REFERENCE: H1-A0106

; CURRENT APPLICATION NUMBER: US/10/108,260A

; CURRENT FILING DATE: 2002-03-27

; NUMBER OF SEQ ID NOS: 5458

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3644

; LENGTH: 660

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-108-260A-3644

Query Match 12.0%; Score 594.5; DB 3; Length 660;
 Best Local Similarity 24.1%; Pred. No. 8.1e-55;
 Matches 171; Conservative 122; Mismatches 231; Indels 185; Gaps 20;

```

Qy      228 YSCRFRVNKLPRFLG-SDNQDTFFSTKRHQILFEILAKTPYGHEKKNLLG----- 277
      ::||| || ||||| : | : ||:|
Db      100 FTYRTRQN---FKGFDDNNDDFLTMAECQFII-----KHELENLRKDEKMIPGY 146

Qy      278 -----IHQLLAEGVLSAAFFLHDGPFKTPPEGPQAPRLNQRQVLQHW-ARWGK 325
      :::| |: |||| : | | |:
Db      147 PQAKLYPGKSLRLRLTSGVIFQVFLHDS-----EALKKLEDTWYTRFAL 192

Qy      326 WNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELC 385
      ||||:| :| ||| :||| :| :| |::|
Db      193 --KQPIDSIIRGYFGETIALYFGFLEYFTFALIPMAVIG----- 229

Qy      386 GSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFHDGGTVFFSLFMALWAVLLLEYWKRKS 445
      |::| | : | |:| :|: :|| |||
Db      230 -----LPYYLFWVE-----DYDKYVIFASFNLIWSTVILELWKRGC 265

```

Qy	446	ATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPFERSARRMLAGSVVIV	505
		: : : :: : : :	
Db	266	ANMTYRWGTLMLKRRKFEEPRPGFHG---VLGINSITGKEEPLYSYKRQLRIYLVSLPFV	322
Qy	506	VMVAVVMVCLVSIILYRAIMAIIVSVRSNGTLLAAWASRIASLTGSVVNVLVFIILSKIYV	565
		: : : : : : : : : : : : : : : : : : : :	
Db	323	CLCLYFSLYVMMIYFDMEVWALGLHENS G---SEWTS-VLLYVPSIIYAIVIEIMNRLYR	378
Qy	566	SLAHVLTIRWEMHRTQTKFDAFTLLKVFIFQFVNIFYSSPVYIAFFKGRFVGYPGNYHTLFG	625
		: : : : : : : : : : : : : : : :	
Db	379	YAAEFLT SWENHRLESAYQNHLLIKVLVFNFLNCFASLFYIAFV-----	422
Qy	626	VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKKGWW--QKFLRLSKKRKAGA	683
		::: : : : : : : : : : : : : : :	
Db	423	LKDMKL-----LRQSLATLLITSQILNQIMESFLP----YWLQRKHGVRVRRKVQAL	470
Qy	684	SAGASQGPWED---DYELVPCEGLFDEYLEMVLQFGFVTIFVAA CPLAPL FALLNNWVEI	740
		: : : : : : : : : :	
Db	471	KADIDATLYEQVILEKEMGTYLGTGDDYLELFLQFGYVSLFSCVYPLAAAFVLNNFTEV	530
Qy	741	RLDARKFVCEYRPRVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTR	800
		: : : : : : : : : : : : : : : : : :	
Db	531	NSDALKMCRVFKRPFSEPSANIGVQLAFETMSVISVVTNCALIGMSPQV--NAVFPESK	588
Qy	801	AHDLRGLFNFTLARAPSSFAAAHNRTCRYRAFRDDDGHSQTYWNLLAIRLAFVIVFEHV	860
		: : : : : : : : : : : : : : : : :	
Db	589	A-DL-----ILIVAVEHA	601
Qy	861	VFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGINGTKDE	909
		: : : : : : : : : : : : : : : : : : :	
Db	602	LLALKFILAFAPDKPRHIOMKLARLEFSESLAKOOOMKLVTENLKEE	650

RESULT 9

```

US-10-100-683-7209
; Sequence 7209, Application US/10100683
; Patent No. 7368531
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900
; CURRENT APPLICATION NUMBER: US/10/100,683
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,601
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580

```

```
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,892
; PRIOR FILING DATE: 1997-08-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7209
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-100-683-7209
```

Query Match 9.2%; Score 455.5; DB 3; Length 257;
Best Local Similarity 42.2%; Pred. No. 2.5e-40;
Matches 108; Conservative 41; Mismatches 56; Indels 51; Gaps 9;

[illegible]

```

RESULT 10
US-11-001-793-7209
; Sequence 7209, Application US/11001793
; Patent No. 7411051
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900

```

```

; CURRENT APPLICATION NUMBER: US/11/001,793
; CURRENT FILING DATE: 2004-12-02
; PRIOR APPLICATION NUMBER: US/10/100,683
; PRIOR FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,601
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7209
; LENGTH: 257
; TYPE: PRF
; ORGANISM: Homo sapiens
US-11-001-793-7209

```

Query Match 9.2%; Score 455.5; DB 3; Length 257;
Best Local Similarity 42.2%; Pred. No. 2.5e-40;
Matches 108; Conservative 41; Mismatches 56; Indels 51; Gaps 9;

Qy	709	LEMVLQFGFVTFIFVACPLAPLPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHI	768
		: ::: : : : : : : : : : :	
Db	1	MEMIIQFGFVTLFVASFPLAPLPLFALLNNIIIEIRLDAKKFVTELRPRPVAVRAKDIGIWIYNI	60
Qy	769	LAGLTHLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF-----	819
		: : : : : : : : : : :	
Db	61	LRGIGKLAVIINAFVISFTSDFIPRLVLYLYMSKNGTMHGFVNHTL----SSFNVSDFQN	116
Qy	820	AAAHN-----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVFVSVG	865
		: : : : : : : : : : :	
Db	117	GTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMS	176
Qy	866	RLDLLVDPDIPESVEIKVKREYYLA-----KQALAENEVLFTGNGTKDEQP----	911
		: : : : : : : :	
Db	177	DFVDWVIPDIPKDISQIHKEKVLMLVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHH	234
Qy	912	-----KGSELSSH	919


```

Qy      743 DARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYRWTRAH 802
      || | :|| :| : :||:| : : :||:| | : | | : :|
Db      266 DALKMCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQV--NAVFPESKA- 322

Qy      803 DLRGFLNFTLARAPSSFAAAHNRTCryRAFRDDDGHSYQTYWNLALIRLAFVIVFEHVVF 862
      || : | : | :
Db      323 DL-----ILIVVAVEHALL 336

Qy      863 SVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDE 909
      : : | :|| | : :||:| : : :|| : : : | | :|
Db      337 ALKFILAFaipDKPRHIQMKLARLEFESLEALKQQQMKLVLTENLKEE 383

```

RESULT 12

US-10-643-836-457

; Sequence 457, Application US/10643836

; Patent No. 7271243

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, Jean Baptiste

; APPLICANT: Bougueleret, Lydie

; APPLICANT: Jobert, Severin

; TITLE OF INVENTION: FULL-LENGTH HUMAN cDNAs ENCODING POTENTIALLY SECRETED PROTEINS

; FILE REFERENCE: 78.US3.REG

; CURRENT APPLICATION NUMBER: US/10/643,836

; CURRENT FILING DATE: 2003-08-19

; PRIOR APPLICATION NUMBER: US/09/731,872

; PRIOR FILING DATE: 2000-12-07

; PRIOR APPLICATION NUMBER: US 60/169,629

; PRIOR FILING DATE: 1999-12-08

; PRIOR APPLICATION NUMBER: US 60/187,470

; PRIOR FILING DATE: 2000-03-06

; NUMBER OF SEQ ID NOS: 482

; SOFTWARE: Patent.pm

; SEQ ID NO 457

; LENGTH: 393

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-643-836-457

Query Match 8.3%; Score 411.5; DB 3; Length 393;

Best Local Similarity 23.8%; Pred. No. 3.5e-35;

Matches 111; Conservative 95; Mismatches 172; Indels 89; Gaps 11;

```

Qy      448 LAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVM 507
      : ||| | : ||| | : | |||:| : | | : | :
Db      1 MTYRWGTLLMKRKFEPRPGFHG---VLGINSITGKEEPLPSYKQRLRIYLVSLPFVCL 57

Qy      508 VAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVLFILILSKIYVSL 567
      : : | : | : : : | : | : | : | : | : | :
Db      58 CLYFSLYVMMIYFDMEVWALGLHENS---SEWTS-VLLYVPSIIYAIVIEIMNRLRYRA 113

Qy      568 AHVLTREWEMHRTQTQKFEDAFTLKVFIQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVR 627
      | || || || : : : : ||| :| :| :| |||| : :

```

```

Db      114 AEFLTSWENHRLESAYQNHLILKVLVFNFLNCFASLFYIAFV-----LK 157

Qy      628 NEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPLKLGWW--QKFLRSKKRKAGASA 685
      : :      | | | : : | : : | : | : | : | : | : |
Db      158 DMKL-----LRQSLATLLITSQILNQIMESFLP---YWLQRKHGVRVKKVQALKA 205

Qy      686 GASQGPWED---DYELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLAFALLNNWVEIRL 742
      : |      : | : | : | : | : | : | : | : | : | : |
Db      206 DIDATLYEQVILEKEMGTYLGTFFDYLELFLQFGYVSLFSCVYPLAAAFVLNNFTEVNS 265

Qy      743 DARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLAFSSDFLPRAYYRWTRAH 802
      | | | : : | : | : : | : : : : | : | : : | : |
Db      266 DALMKCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQV--NAVFPESKA- 322

Qy      803 DLRGFLNFTLARAPSSFAAAHNRTCryRAFRDDDGHSYQTYWNLALIRLAFVIVFEHVVF 862
      | | : : : : : : : : : : : : : : : : : : : :
Db      323 DL-----ILIVVAVEHALL 336

Qy      863 SVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDE 909
      : : : | : | : : : | : : : | : : | : |
Db      337 ALKFILAFaipDKPRHIQMKLARLEFESLEALQQQMKLV TENLKEE 383

```

RESULT 13

US-09-270-767-61064

; Sequence 61064, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 61064

; LENGTH: 215

; TYPE: PRT

; ORGANISM: *Drosophila melanogaster*

US-09-270-767-61064

Query Match 8.0%; Score 396.5; DB 2; Length 215;
 Best Local Similarity 43.2%; Pred. No. 5.3e-34;
 Matches 89; Conservative 36; Mismatches 54; Indels 27; Gaps 6;

```

Qy      648 MVGKQVINNMQEVLIPLKLGWWQKFLRSKKRKAGASAGASQGP-----WEDDYEL 698
      | | | | | : | : | : | : | : | : | : | : | : | : |
Db      1 MVGKQAFNTILEVYLP---FWRKV---LAIQVGLSRLFNNTPNPDKTKDERWMRDFKL 53

Qy      699 VP--CEGLFDEYLEMVLQFGFVTIFVAACPLAPLAFALLNNWVEIRLDARKFVCEYRRPVA 756
      : | | | | | | | | : | | | | | | | | : | : | : | : |
Db      54 LDWGARGLFPEYLEMVLQYGFVTIFVAAPLAPLAFALLNNILEMRDAAKLLTHHKRPVS 113

```

```

Qy      757 ERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYRWTRAHDLRGFLNFTLAR-- 814
      :| :|||:|: || : |:|:| |:|:|:| :| : | |:|:|:|:
Db      114 QRVRDIGVWYRILDCIGKLSVITNGFIIAFTSDMIPRLVRHVNKQGTLDGYLNFTLSEFK 173

Qy      815 ---APSSFAAAHN---RTCRYRAFR 833
      |: :: | : ||| ||
Db      174 VIDSPTLYSLAGDLSNITTCRYTDFR 199

```

RESULT 14

US-09-270-767-32253

; Sequence 32253, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 32253

; LENGTH: 366

; TYPE: PRT

; ORGANISM: *Drosophila melanogaster*

US-09-270-767-32253

Query Match 7.1%; Score 353; DB 2; Length 366;
 Best Local Similarity 32.4%; Pred. No. 7.7e-29;
 Matches 95; Conservative 56; Mismatches 104; Indels 38; Gaps 9;

```

Qy      108 RIADFVLVWEEEDLKLDQRQDSAAARDRTDMHRT-WRETFLDNLRAAGLCVD--QQDVQDGN 164
      | ||| : : | : |:| | | | | : || : |:|
Db      93 RSIDFVLAYRIN-----AHEPTELENTEKRRVFEEANLISQGLEVESSQKD----- 137

Qy      165 TTVHYALLSASWAVLCYYAEDLRLLKLPLQELPNQASNWSAGLLAWLGIPNVL-----LE 218
      : : : | || ||| |:|:|:|:| : : : : :| :
Db      138 -QIWFVKIHAPLEVLRRYAEILKLRMPMKEIPGMSVVNRSTKSVFSSLKHVQFFFLRNII 196

Qy      219 VVPDVPPEYYSCRFV--NKLPRFLGSDNQDFTFTSTKRHQILFEIL--AKTPYGHEKKN 274
      | :| :| : || : : | || ||: | :|: || :| :|
Db      197 VDEEIFPK-RAHRFTAIYSRDKEYLFDIRQDCFFTTAVRSRIVEFILDQRFPKAKNQHDM 255

Qy      275 LLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQKQVLFQHWARWGKWNKYQPLDH 334
      || :|:|:| | | :|:| | | :|:| | | :|:| |
Db      256 AFGIERLIAEGVYSAAAYPLHDGEITETG-----TMRALLYKHVASVPKWKYRQPLDD 307

Qy      335 VRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387
      :: ||| |: | | | | | :| | | :|:| : || : : : :| :|
Db      308 IKEYFGVKIGLYFAWLGYTTYMLLLASIVGVICFLYSWFSCLKNYVPVKDICQS 360

```

RESULT 15

US-09-270-767-47470
 ; Sequence 47470, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,767
 ; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 47470
 ; LENGTH: 366
 ; TYPE: PRT
 ; ORGANISM: Drosophila melanogaster
 US-09-270-767-47470

Query Match 7.1%; Score 353; DB 2; Length 366;
 Best Local Similarity 32.4%; Pred. No. 7.7e-29;
 Matches 95; Conservative 56; Mismatches 104; Indels 38; Gaps 9;

```

Qy      108 RIADFVLVWEEDLKLDRQQDSAARDRTDMHRT-WRETFLDNLRAAGLCVD--QQDVQDGN 164
      | ||| : :          | : ||: | | | || : || | : | :|
Db      93 RSIDFVLAYRIN-----AHEPTELENTEKRRVFANLISQGLEVESSQKD----- 137

Qy      165 TTVHYALLSASWAVLCYYAEDLRKLPLQELPNQASNWSAGLLAWLGIPNVL-----LE 218
      : : : | || || | : ||: ||: || : : : : : : : : :
Db      138 -QIWFVKIHAPLEVLRRYAEILKLRLMPKEIPGMSVVNRSTKSVFSSLKHVFQFFLRNIY 196

Qy      219 VVPDVPPEYYSCRFRV--NKLPRFLGSDNQDTFFSTKRRHQILFEIL--AKTPYGHEKKN 274
      | : | : : || : : : | || ||: | : || : | : | : :
Db      197 VDEEIPFK-RAHRRTAIYSRDKKEYLFDIRQDCFFTTAVRSRIVEFILDQRFPKQNHDM 255

Qy      275 LLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDH 334
      || : ||| ||| : ||| | : ||: || | : ||| || : ||| ||
Db      256 AFGIERLIAEGVYSAAAYPLHDGEITETG-----TMRALLYKHWASVPKWYRQPLDD 307

Qy      335 VRRYFGKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387
      : : || | : ||||| : || || ||: || : || : : : | : ||
Db      308 IKEYFGVKIGLYFAWLGYTTYMLLLASIVGVICFLYSWFSLKNYVPVKDICQS 360

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Search completed: March 17, 2009, 05:04:35
 Job time : 160.9 secs

SCORE 3.0